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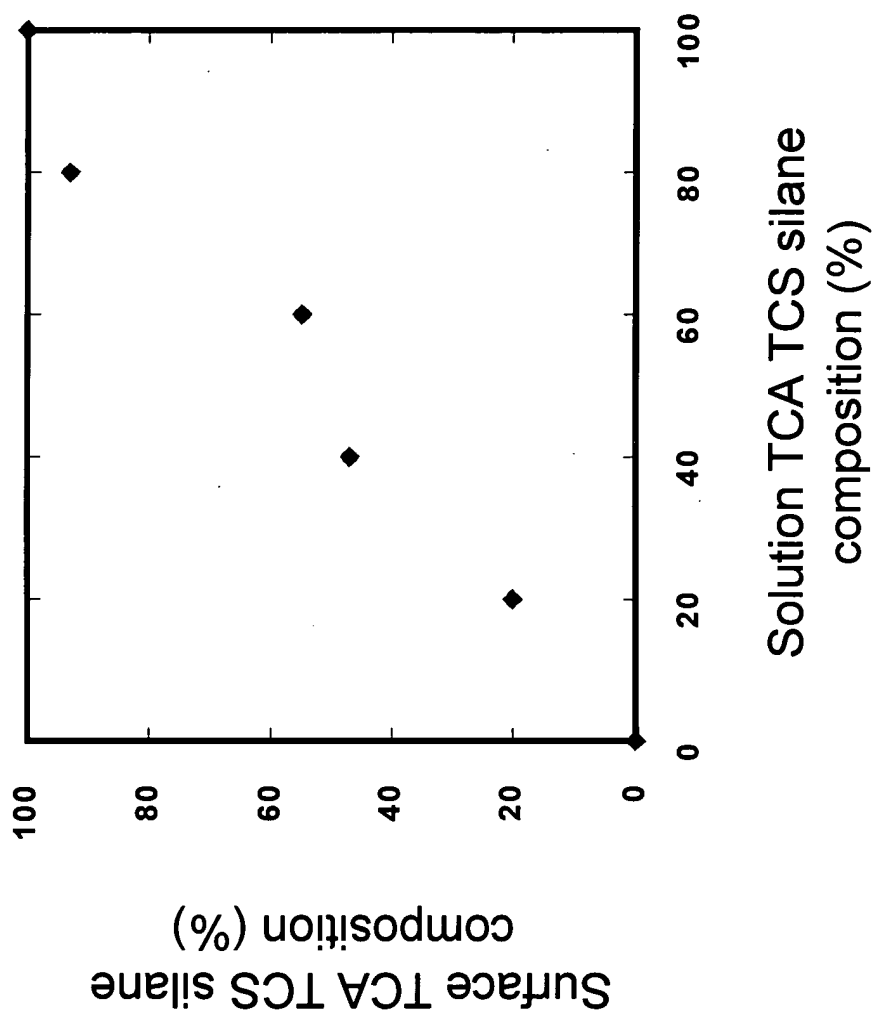
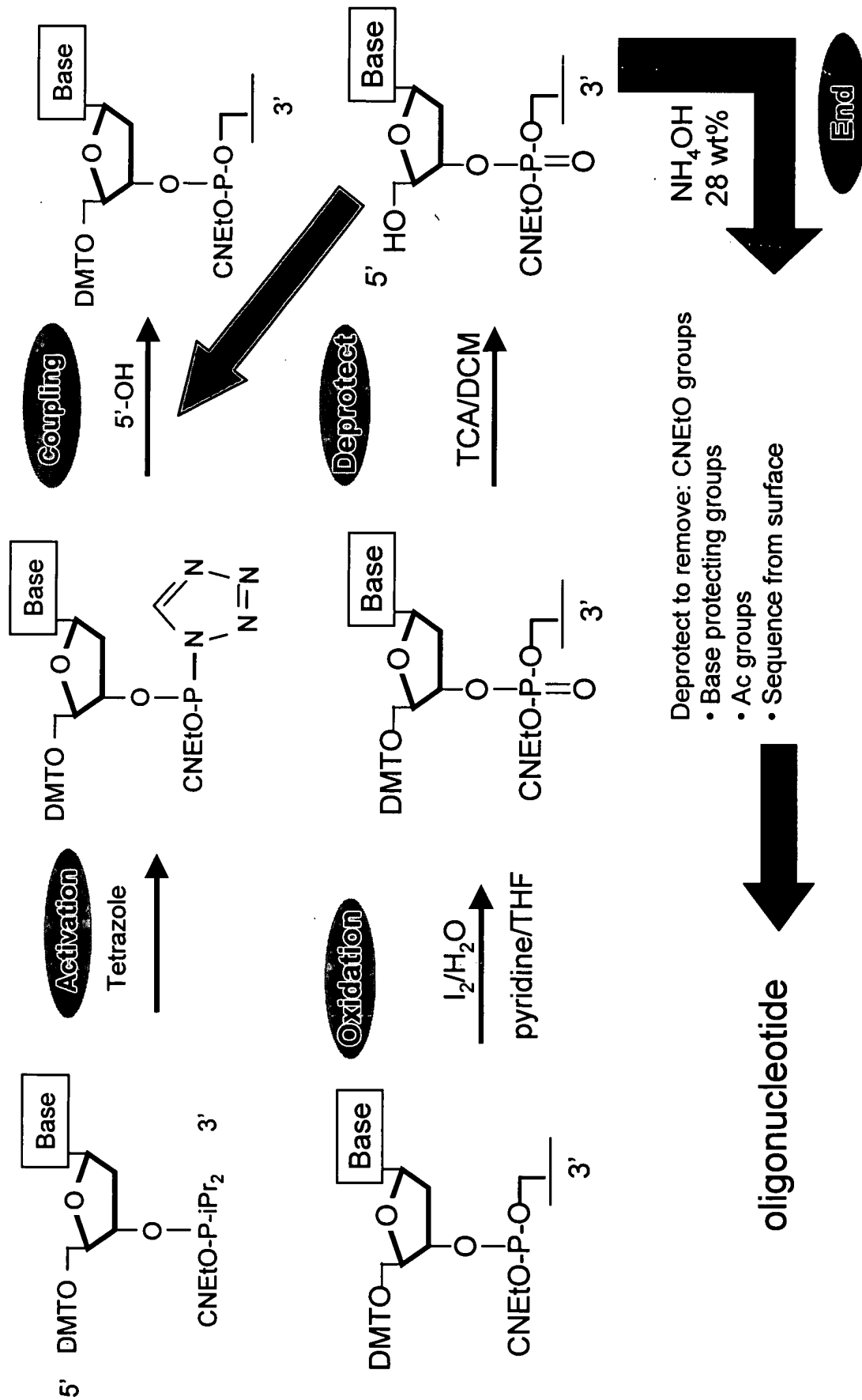
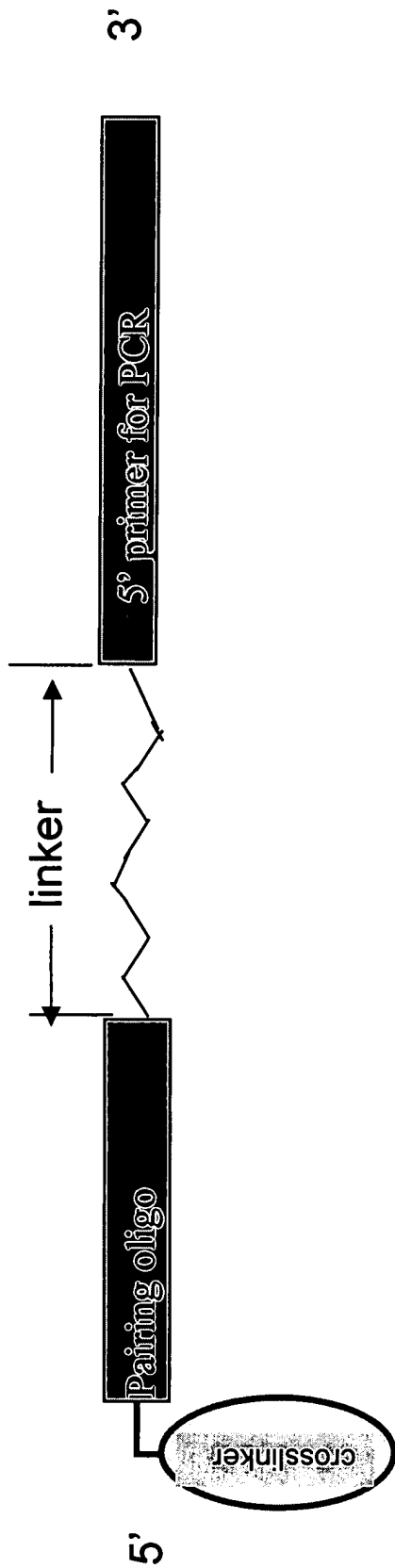


Figure 1



* CNEtO=cynoethanol, iPr=isopropyl, DMT=dimethyl trityl, Ac=acetyl, TCA=trichloroacetic acid, DCM= CH_2Cl_2

Customized PCR 5' Primer



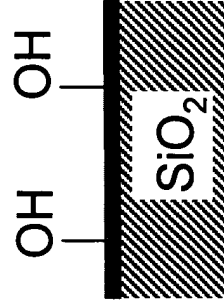
PCR Product with 5' Dangling End



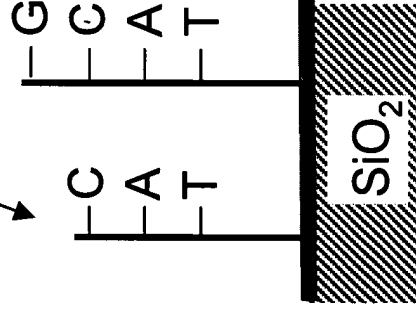
Figure 3

1. Coupling
2. Capping
3. Oxidation
4. Deprotection

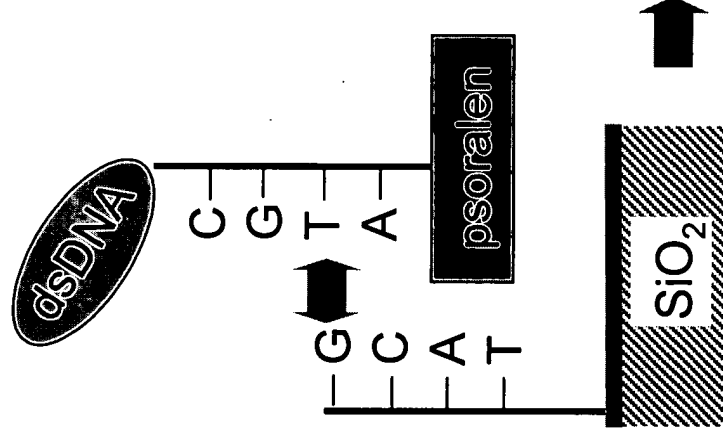
G



Derivatize
reactive surface



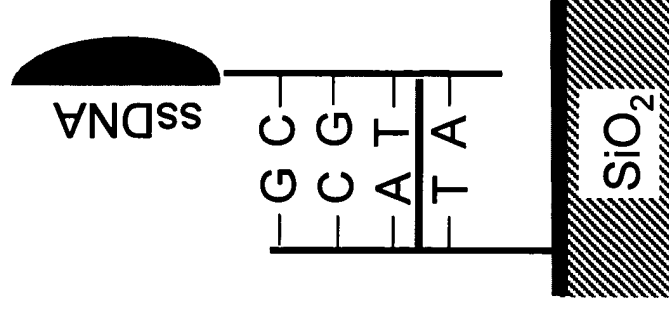
Stepwise oligo
synthesis



Hybridize dsDNA
with dangling end

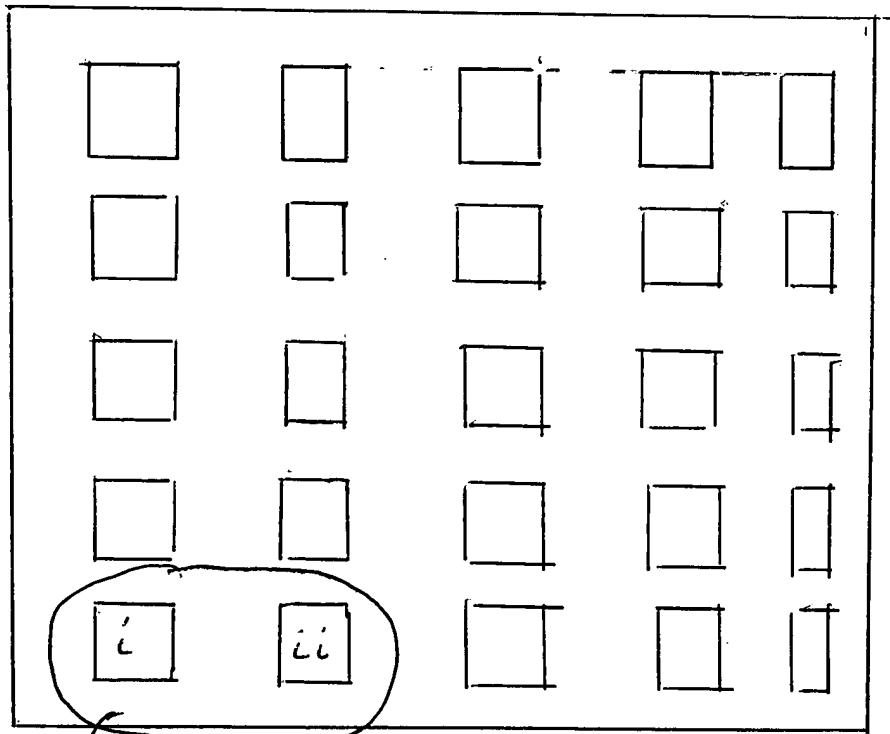
Crosslink

+

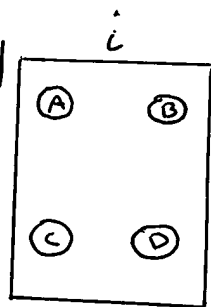


Crosslink dsDNA
and heat to expose
ssDNA probe

A



B



+

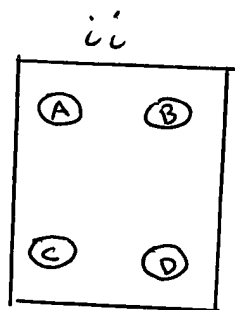
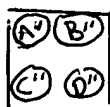
$A' - A''$

$B' - B''$

$C' - C''$

$D' - D''$

↓



+

$A' - E''$

$B' - F''$

$C' - G''$

$D' - H''$

↓

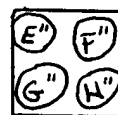
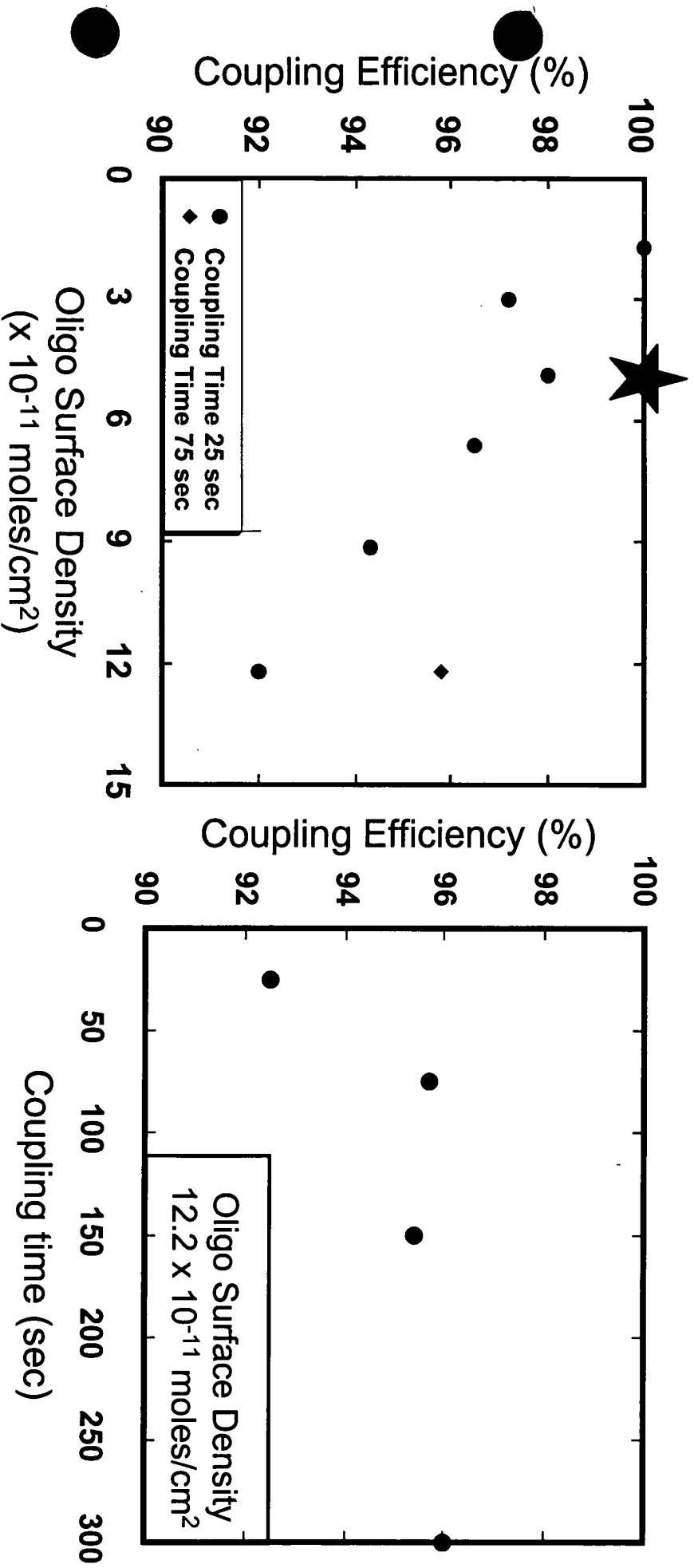
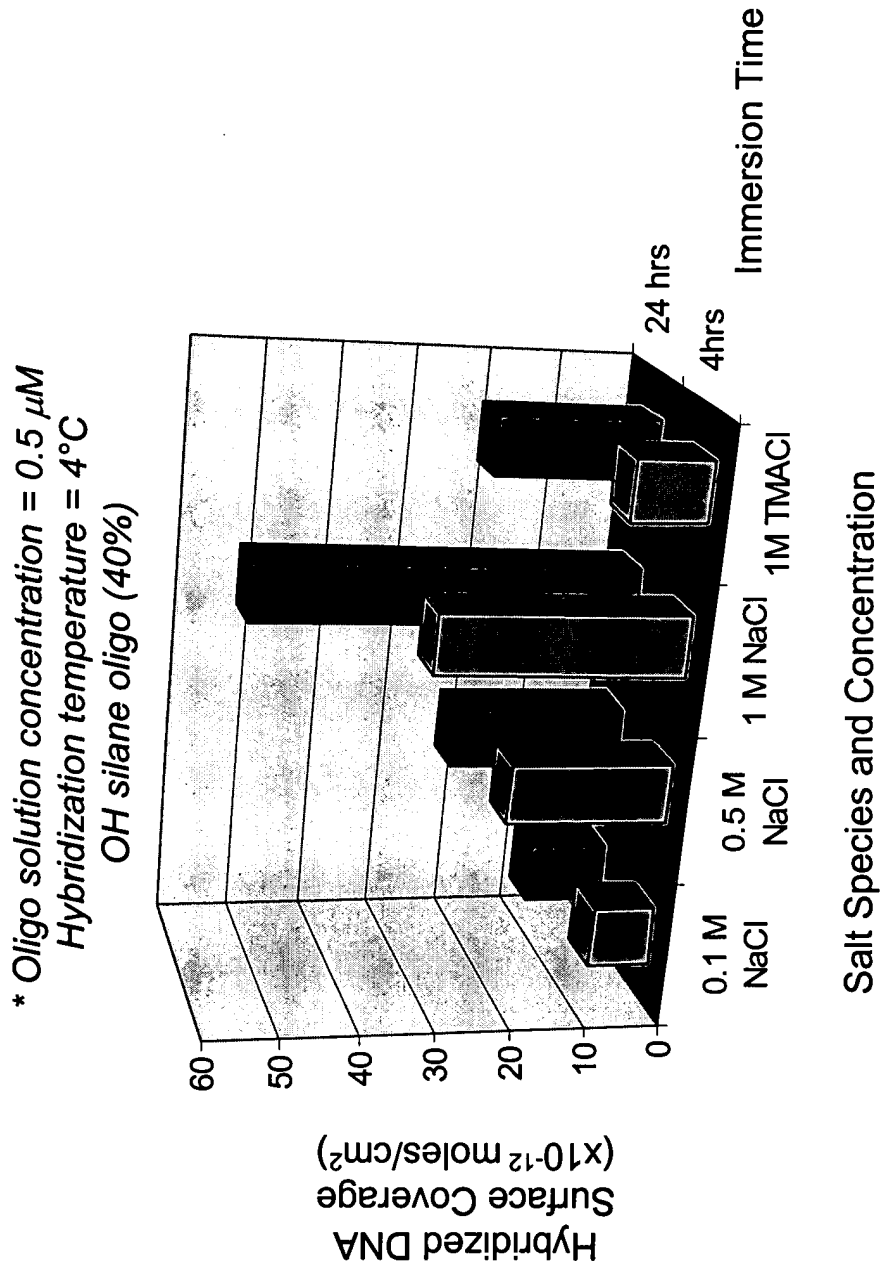


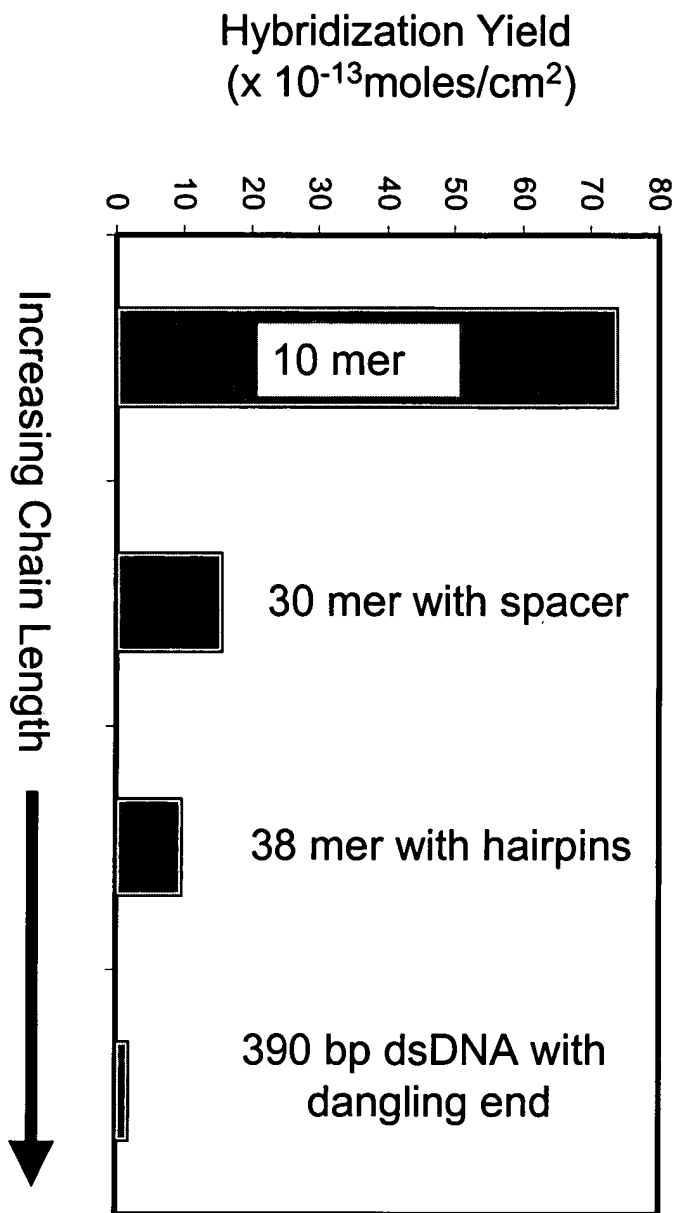
Figure 5



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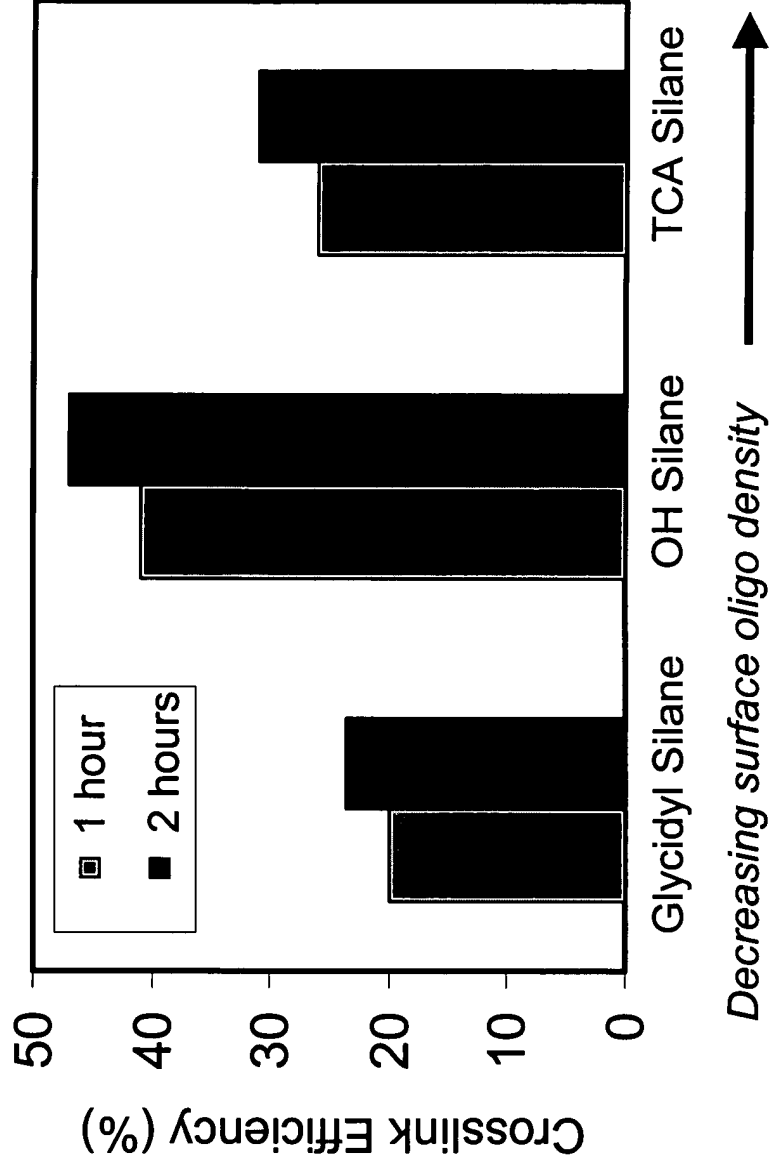
Figure 6





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Figure 2



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